

There appears to be some variation in the coloring of this species. I have seen two specimens, one in the type series, the other collected by Howden and Becker, with the head, prothorax and base of elytra piceous. Dr. Farr writes that there is a blue variant of it also, although he can find no blue specimen in the collection to substantiate this. He states that this species occurs so commonly on *Tecoma stans* (L.) that he has called it the "Tecoma beetle." In its most common color form, yellowish or reddish brown throughout, it resembles closely other yellow brown species of the genus in the West Indies. But the aedeagus is unlike the others, and it is undoubtedly the Jamaican race of a very homogeneous group of species found in the West Indies.

In Jacoby's description of *H. variabilis* (Jacoby, 1885, Biol. Centr. Amer., Coleoptera 6(1):292, under *Euplectroscelis*) he wrote that "the amount of piceous of the elytra is extremely variable, either being confined to the base and apex only, or to the sutural and lateral margins to a greater or smaller degree." This Jamaican species appears to have a similar variability.

SOME AFRICAN FULGOROIDEA IN THE UNITED STATES NATIONAL MUSEUM

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ABSTRACT—A list is given for 92 species of African Homoptera representing 58 genera and 11 families. *Capenopsis krameri*, n. sp., from South Africa, *Myndus liberianus*, n. sp., from Liberia, and *Sabecoides ornatus*, n. sp., from Liberia, are described and illustrated.

The present note concerns a small collection of African Homoptera from the United States National Museum sent to me for study on the recommendation of Dr. James P. Kramer, Systematic Entomology Laboratory, Agriculture Research Service, U. S. Department of Agriculture. It contains the diagnosis of three new species, two from Liberia and one from South Africa.

The value of this collection lies in the great diversity of forms represented and in the opportunity to add to the knowledge of their distribution.

Eleven families are represented by the approximately 400 specimens, as follows:

- Fulgoridae 22 (6 genera, 13 species and forms)
- Dictyopharidae 72 (11 genera, 16 species of which one is new to the science)
- Cixiidae 152 (9 genera, 17 species of which one is new to science)
- Flatidae 48 (10 genera, 15 species)
- Ricaniidae 1 (1 genus, 1 species)

- Achilidae 28 (6 genera, 7 species of which one is new to the science)
 Tropiduchidae 7 (3 genera, 4 species)
 Meenoplidae 30 (4 genera, 9 species)
 Derbidae 17 (5 genera, 6 species)
 Issidae 6 (2 genera, 2 species)
 Lophopidae 19 (1 genus, 2 species)

Family FULGORIDAE

Genus **Holodictya** Gerstaecker

Gerstaecker, A., 1895, Mitt. Naturw. Ver. Greifswald 27: 70.

Holodictya maculata (Distant)

Distant, W. L., 1878, Trans. Ent. Soc. London, p. 323. *Polydictya*.
 Congo: Luebo, D. W. Snyder, 1 specimen.

Genus **Anecephora** Karsch

Karsch, F., 1890, Berl. Ent. Z. 35: 63.

Anecephora torrida (Walker)

Walker, F., 1851, List of the Homopterous Insects in the collection of the British Museum 2: 281. *Aphaena*.
 Congo: Luebo, D. W. Snyder, 2 specimens.

Anecephora torrida form **sanguineopunctata** Schmidt

Schmidt, E., 1905, Stettin Ent. Zeit. 66: 363, 370.
 Congo: Luebo, D. W. Snyder, 1 specimen.

Anecephora torrida form **angulosa** Strand

Strand, E., 1911, Wiener Ent. Zeit. 30: 24.
 Liberia: Mt. Coffee, November 1, 1897, R. P. Currie. Ghana: Gold Coast, Axim.
 "West Africa: Elat Cam, F. H. Hope." 5 specimens.

Genus **Malfeytia** Schmidt

Schmidt, E., 1905, Stettin Ent. Zeit. 66: 360.

Malfeytia hilaris (Gerstaecker)

Gerstaecker, A., 1895, Mitt. Naturw. Ver. Greifswald 27: 9. *Anecephora*.
 Tanzania: "Deutsch Ost Afrika." 1 specimen.

Omalocephala Spinola

Spinola, M., 1839, Ann. Soc. Ent. France 8: 259.

Omalocephala intermedia Bolivar

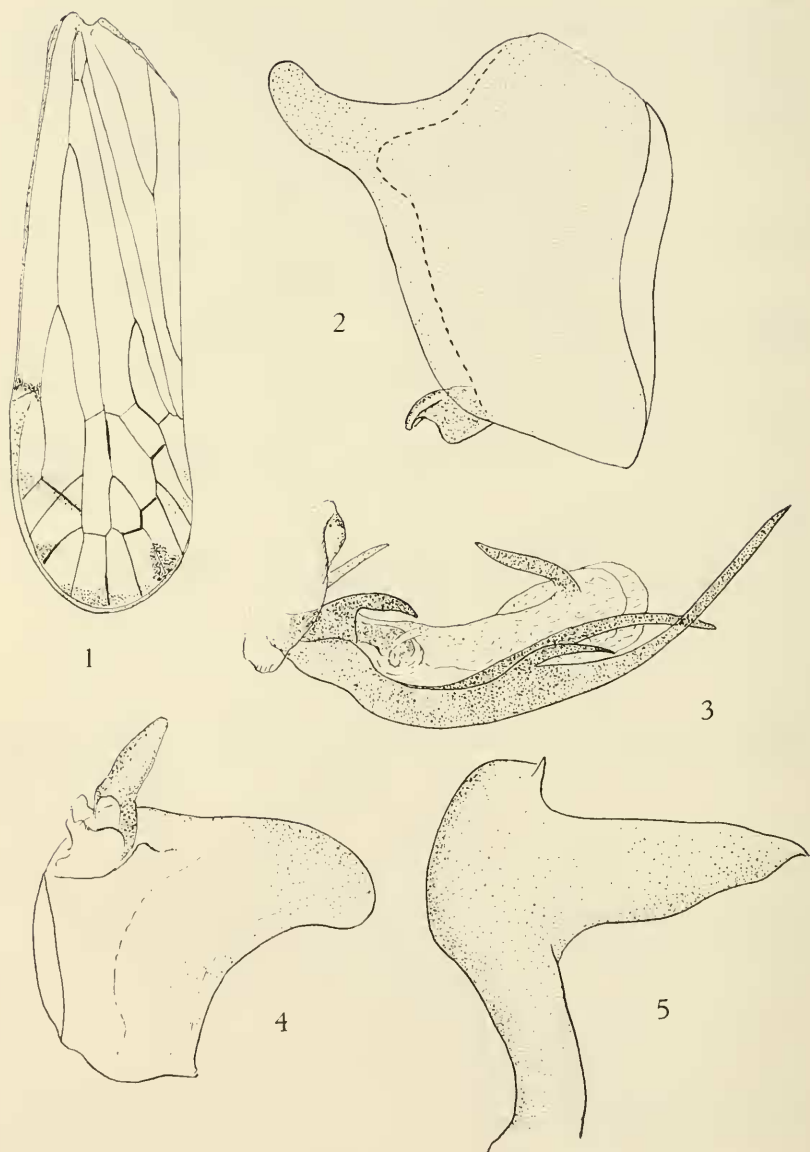
Bolivar, I., 1879, Ann. Soc. Espanola Hist. Nat. 8: 145.
 Tanzania: Dar es Salaam, 1 specimen.

Metaphaena Schmidt

Schmidt, E., 1905, Stettin Ent. Zeit. 66: 360.

Metaphaena basiflava form **tricolor** Schmidt

Schmidt, E., 1905, Stettin Ent. Zeit. 66: 363. *Metaphaena tricolor*.
 Congo: Luebo, D. W. Snyder, 1 specimen.



Figs. 1-5, *Myndus liberianus*, n. sp.: 1, elytron; 2, pygophore, latero-ventral view from right; 3, aedeagus, latero-ventral view from left; 4, anal tube, latero-ventral view from left; 5, right paramere, lateral view.

Metaphaena basirufa Schmidt

Schmidt, E., 1905, Stettin Ent. Zeit. 66: 363.

Congo: Luebo, D. W. Snyder, 1 specimen.

Metaphaena novemmaculata (Distant)

Distant, W. L., 1878, Trans. Ent. Soc. London, p. 323.

"West Africa: Elat Cam, F. H. Hope." 1 specimen.

Genus **Zanna** Kirkaldy

Kirkaldy, G. W., 1902, Jour. Bombay Nat. Hist. Soc. 14: 47.

Zanna tenebrosa (Fabricius)

Fabricius, J. C., 1775, Systema entomologiae, p. 674. *Fulgora*.

Liberia: Bendja, W. M. Mann; Monrovia, February 3, 1954, W. Franklin.

Mozambique: "Portuguese East Africa." 4 specimens.

Zanna clavaticeps (Karsch)

Karsch, F., 1890, Berl. Ent. Z. 35: 62. *Pyrops*.

Congo: Luebo, D. W. Snyder. 1 specimen.

Zanna punctata (Olivier)

Olivier, G. A., 1791, Encyclopedie methodique histoire naturelle insectes 6: 569. *Fulgora*.

Mozambique: Lourenco Marques, C. W. Howard. 1 specimen.

Zanna pustulosa (Gerstaecker)

Gerstaecker, C. E. A., 1873, Baron Carl Claus von der Decken's Reisen in Ost-Afrika in den Jahren 1859-1865 3: 427, pl. xvii, fig. 9.

Southern Rhodesia: Salisbury, February 8, 1920, J. A. O'Neill. 1 specimen.

Family **DICTYOPHARIDAE**

Genus **Raphiophora** (Schaum)

Schaum, H., 1850, Allgemeine Encyklopädie 51: 67. *Nematophora*.

Schaum, H., 1851, Arch. Nat. 17: 268. *Raphiophora*.

Raphiophora zephyrus (Gerstaecker)

Gerstaecker, A., 1895, Mitt. Naturw. Ver. Gerifswald 27: 14. *Simotettix*.

Liberia: Mount Coffee, R. P. Currie; Suakoko, May 12, 1952. 4 specimens.

Genus **Paranagnia** Melichar

Melichar, L., 1912, Abh. Zool. Bot. Ges. Wien 7: 54.

Paranagnia fuminervis (Lethierry)

Lethierry, L. F., 1892, Bull. Soc. Zool. France, p. 208. *Dictyophora*.

Liberia: Mount Coffee, R. P. Currie; Suakoko, May 12, 1952. 3 specimens.

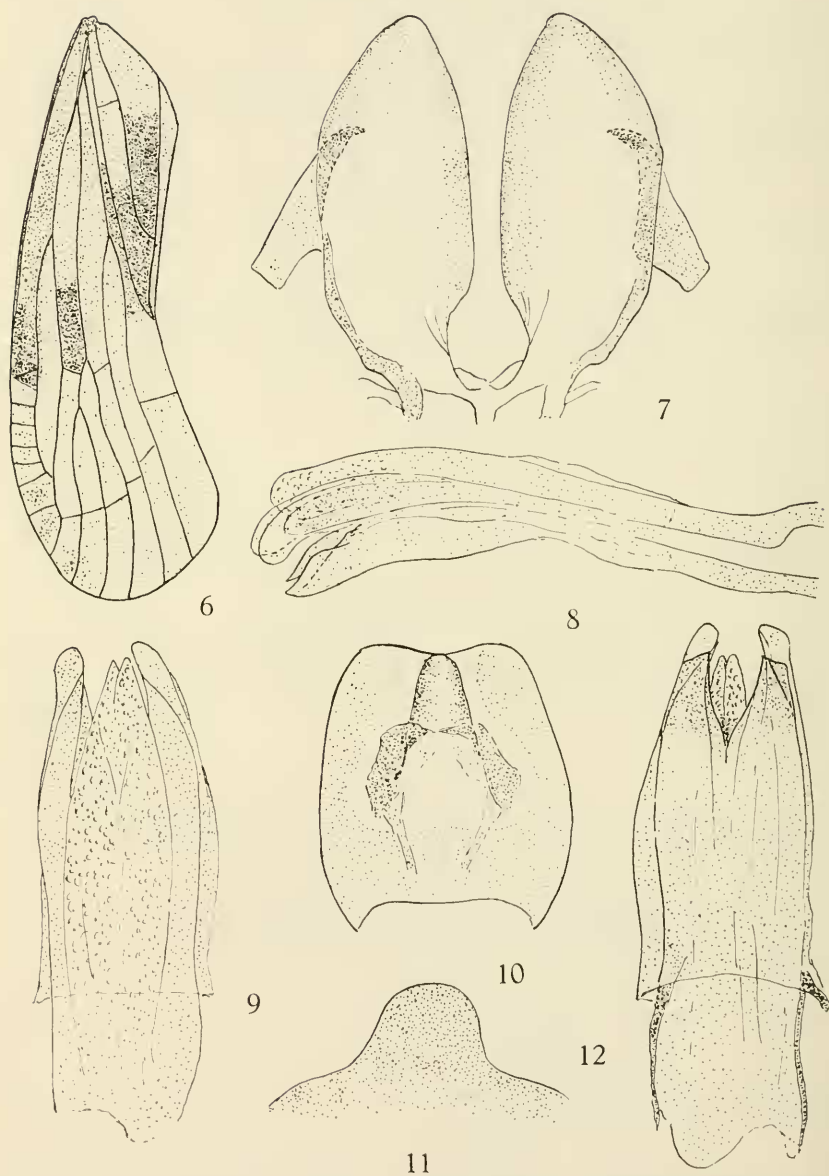
Genus **Engela** Distant

Distant, W. L., 1906, Trans. S. Afr. Phil. Soc. 16: 415.

Engela minuta Distant

Distant, W. L., 1906, Trans. S. Afr. Phil. Soc. 16: 416.

South Africa: Cape Town, January-April, 1915, J. C. Bridwell. 4 specimens.



Figs. 6-12, *Sabecoides ornatus*, n. sp.: 6, elytron; 7, paramere; 8, aedeagus, latero-ventral view from right; 9, aedeagus, dorsal view; 10, anal tube, dorsal view; 11, medio-ventral appendage of pygophore; 12, aedeagus, ventral view.

Genus **Aselgeia** Walker

Walker, F., 1851, List of the Homopterous Insects in the collection of the British Museum 2: 324.

Aselgeia ramulifera Walker

Walker, F., 1851, List of the Homopterous Insects in the collection of the British Museum 2: 324.

Mozambique: Lourenco Marquez, C. W. Howard. 1 specimen.

Genus **Philotheria** Melichar

Melichar, L., 1912, Abh. Zool. Bot. Ges. Wien 7(1): 92.

Philotheria ceryx Fennah

Fennah, R. G., 1961, Mem. Inst. Franc. Afr. Noire 62(2): 315, fig. 5a-e.

Liberia: Suakoko, May 12, 1952; February 24, 1952, C. C. Blickenstaff.

Sierra Leone: "Njala," December 4, 1935, van Zwaluwenburg and Mc Gough.

Philotheria senegalensis (Spinola)

Spinola, M., 1839, Ann. Soc. Ent. France 8: 295. *Dictyophora*.

Cape Town, South Africa: J. C. Bridwell. 3 specimens.

Philotheria natalensis (Stål)

Stål, C., 1855, Öfv. Svenska Vet. Akad. Förh. 1855, p. 91. *Pseudophana*.

Cameroon, West Africa: Yaounde, 2,600 feet, May 29, 1930, van Zwaluwenburg and Mc Gough.

Philotheria rochetii (Guerin)

Guerin, F. E., 1849, In Lefebvre, Voyage en Abyssinie, execute pendant les annees 1839-1843, Ins., p. 342, pl. 6, fig. 8. *Fulgora*.

Sudan: September 29, 1943, J. M. Mc Gough. 1 specimen.

Genus **Pseudophanella** Fennah

Fennah, R. G., 1957, Ann. Mus. Roy. Congo Belge 59: 93.

Pseudophanella regina sollenis Fennah

Fennah, R. G., 1957, Ann. Mus. Roy. Congo Belge 59: 95.

Liberia: Suakoko, February 24, 1952, C. C. Blickenstaff; id., May 13, 1952; id.,

February 16, 1952; id., March 2 and 9, 1952. 5 specimens.

Genus **Neodictya** Synave

Synave, H., 1965, Expl. Parc Nat. Garamba 47: 37.

Neodictya suavis (Fennah)

Fennah, R. G., 1957, Ann. Mus. Roy. Congo Belge 59: 87. *Paradictya*.

Liberia: "Cape Mount," M. M. Mann. 4 specimens.

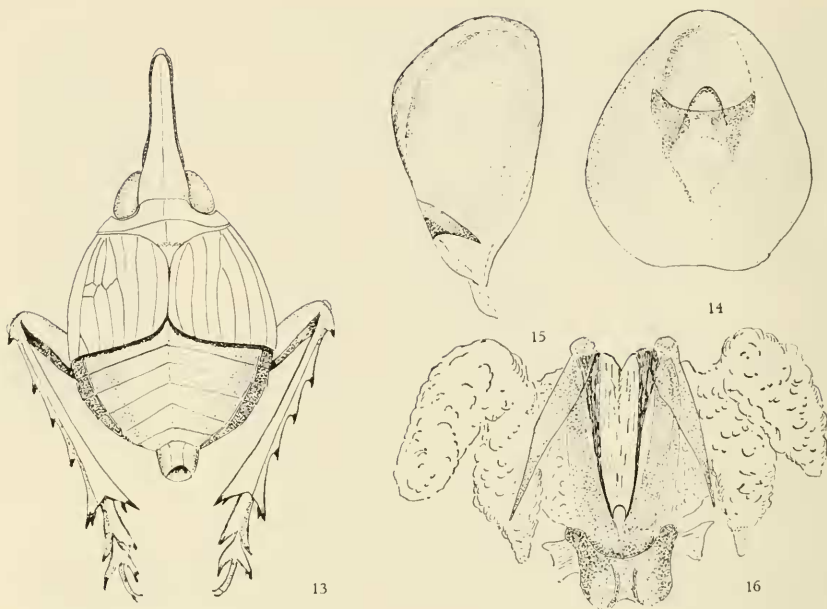
Neodictya izzardi Synave

Synave, H., 1965, Expl. Parc Nat. Garamba 47: 37, figs. 86, 89, 100.

Tanzania: Jomalema Range, Exped. Chanler-Hohnel. 1 specimen.

Genus **Afronersia** Fennah

Fennah, R. G., 1957, Ann. Mus. Roy. Congo Belge 59: 65.



Figs. 13-16, *Capenopsis krameri*, n. sp.: 13, dorsal view, 14, anal tube, dorsal view; 15, paramere, lateral view; 16, aedeagus, dorsal view.

***Afronersia discrepans* Fennah**

Fennah, R. G., 1957, Ann. Mus. Roy. Congo Belge 59: 72, figs. 44a-e.
Liberia, Suakoko, May 12, 1952, F. S. Blanton. 1 specimen.

***Afronersia liriopae* Fennah**

Fennah, R. G., 1958, Bull. Inst. Franc. Afrique Noire (ser. A) 20: 215, fig. 19.
Liberia: "Gibi," W. M. Mann. 1 specimen.

Genus *Phaenodictyon* Fennah

Fennah, R. G., 1957, Ann. Mus. Roy. Congo Belge 59: 88.

***Phaenodictyon ellipticum* (Walker)**

Walker, F., 1851, List of the Homopterous Insects in the Collection of the British Museum 2: 312. *Dictyophara*.

Liberia: Belle Yella, W. M. Mann; Lenguatowa, near Kakata, M. M. Mann;
Suakoko, May 12, 1952, F. S. Blanton; idem. May 13, 1952, C. C. Blickenstaff.
12 specimens.

Genus *Strongylodemas* Stål

Stål, C., 1853, Öfv. Svenska Vet. Akad. Förh. 10: 265.

***Strongylodemas circulare* Stål**

Stål, C., 1855, Öfv. Svenska Vet. Akad. Förh. 12: 92.

South Africa: Cape Town, January to April, 1915, J. C. Bridwell. 25 specimens.

Genus *Capenopsis* Melichar

Melichar, L., 1912, Abh. Zool. Bot. Ges. Wien 7(1): 181.

Capenopsis krameri, n. sp.

(Figs. 13-16)

Vertex, with its projection, about three times as long as its width at base between eyes (64:24); ochraceous, with small black dots on the lateral borders and the median carina; lateral borders not elevated, strongly convergent anteriorly, slightly concave beyond the anterior margin of the eyes; median carina strongly prominent for its full length, in profile practically straight. Front long and narrow, angularly rounded at base, lateral borders regularly divergent until just in front of the anterior margin of the eye, then subparallel to apex; lateral carinae slightly diverging on the anterior half, then slightly convex and converging to the clypeus; median carina distinct, extended to the clypeus, ochraceous, with small, black points on the lateral borders and the carinae. Clypeus ochraceous, with small black points on its apex, lateral borders and median carina, slightly narrower anteriorly and strongly constricted posteriorly. Rostrum yellow, surpassing posterior coxae; apex of last segment black. Antennae globose, blackish, with a yellow spot on base of second segment. Pronotum ochraceous, with a more or less clear transverse, median, reddish band; with numerous small black points on the other part of the disc and on the median carina; broader than the head across the eyes; anterior border of the median lobe very slightly convex, almost straight; posterior border very broadly and shallowly concave medially; median carina distinct; pectoral plates very long, depressed apically; basal half brown, sprinkled with small black dots; anterior half white, with equally numerous black points; a transverse black band separating the two lobes.

Scutellum more or less reddish ochraceous; posterior angle white, anteriorly delimited by a transverse, narrow black band; with black points along the median carina. Elytra reaching second visible segment of the abdomen, nearly as long as wide, dark grey (sometimes yellow) with several black points along the ochraceous veins; borders of costa and scutellum slightly convex, sutural and apical borders straight; apical angle rectangular, sutural angle rounded. Abdomen wide, sutures slightly prominent medially; ochraceous, with numerous small black points, especially along lateral border where they form a darker, longitudinal band. Anterior and median tibiae and femora slightly dilated, ochraceous, with transverse bands and points black; posterior surface of hind femora ochraceous with black points, especially at the apex; anterior surface brownish black; posterior tibia ochraceous with black points, except on external surface which is nearly wholly dark brown; with four lateral spines, of which one is at femoro-tibial articulation; apically with seven spines.

Genitalia ♂, see figs. 14-16.

Holotype ♂: South Africa: near Melkbosstrand, C. P., 9-11-48, A. J. Duke (Institut Royal des Sciences Naturelles de Belgique). Paratypes (1♂, 2♀♀): same locality as holotype; Cape Town, J. C. Bridwell; Cape Town, January-April, 1915, J. C. Bridwell (Institut Royal des Sciences Naturelle de Belgique and U. S. National Museum).

Family CIXIIDAE

Genus *Mnemosyne* Stål

Stål, C., 1866, Hemiptera Africana 4: 150.

Mnemosyne camerunensis Distant

Distant, W. L., 1907, Ann. Mag. Nat. Hist. (ser. 7) 19: 283.

Cameroon, West Africa: Yaounde, Zwaluwenburg and Mc Gough. 1 specimen.

Mnemosyne evansi Muir

Muir, F., 1923, Ann. Mag. Nat. Hist. (ser. 9) 2: 558.

Liberia: Lenguatowa, near Kakata, W. M. Manns.

Genus *Oliarus* Stål

Stål, C., 1862, Berl. Ent. Z. 6: 306.

Oliarus lootensi Synave

Synave, H., 1956, Rev. Zool. Bot. Africaine 53: 365, figs. 1-4.

Liberia: Mount Coffee, R. P. Currie; Suakoko, March 1-9, 1952, C. C. Blickenstaff, 2 specimens.

Oliarus limbifera Hesse

Hesse, A. J., 1952, Ann. S. Afr. Mus. 23: 151, pl. 7, fig. 4.

Mozambique: Lourenco Marques, 1910, C. W. Howard. Nigeria: Oloke Meji, Ibadan. 3 specimens.

Oliarus africanus Synave

Synave, H., 1959, Rev. Zool. Bot. Africaine 59: 15, figs. 43-45.

Liberia: Suakoko, May 12, 1952, F. S. Blanton. 3 specimens.

Oliarus orithyia Fennah

Fennah, R. G., 1958, Bull. Inst. Franc. Afrique Noire (ser. A) 20: 4621, pl. 1, figs. 1-5.

Liberia: "Cape Mount," W. M. Manns; Suakoko, March 1-9, 1952, C. C. Blickenstaff; *ibid*, May 12, 1952, F. S. Blanton. 11 specimens.

Oliarus formosus Synave

Synave, H., 1960, Expl. Parc Nat. Garamba 18(2): 35, figs. 62-66.

Nigeria: Oloke Meji, Ibadan. 1 specimen.

Genus *Cixius* Latreille

Latreille, P. A., 1804, Histoire Naturelle, Insectes 12: 310.

Cixius stigmatalis Melichar

Melichar, L., 1911, Bull. Mus. Hist. Nat. Paris, 1911, p. 114.

Congo: Lubumbashi, December, 1951, C. Seydel. 21 specimens.

Genus *Ptoleria* Stål

Stål, C., 1859, Berl. Ent. Z. 3: 321.

Ptoleria straeleni Synave

Synave, H., 1953, Expl. Parc Nat. Albert 79: 32, fig. 8.

Liberia: Suakoko, March 21, 1952, C. C. Blickenstaff; *ibid*, May 3-4, 1952. 3 specimens.

Genus **Brixia** Stål

Stål, C., 1856, Öfv. Svenska Vet. Akad. Förh. 13: 162.

Brixia speciosa Muir

Muir, F., 1923, Ann. Mag. Nat. Hist. (ser. 9) 2: 554.

Mozambique: Lourenco Marques, C. W. Howard. 1 specimen.

Genus **Achaemenes** Stål

Stål, C., 1866, Hemiptera Africana 4: 170.

Achaemenes kilimanus Jacobi

Jacobi, A., 1910, Swedischen Zoologischen Expedition Kilimandjaro 12: 107.

Mozambique: Lourenco Marquez, C. W. Howard. 4 specimens.

Achaemenes seydeli Synave

Synave, H., 1959, Rev. Zool. Bot. Africaine 59(1-2): 8, fig. 21-23.

Congo: Lubumbashi, December 1951, C. Seydel. 12 specimens.

Achaemenes flavescens Synave

Synave, H., 1953, Expl. Parc Nat. Upemba 23: 11.

Congo: Lubumbashi, 1951, C. Seydel. 39 specimens.

Genus **Myndus** Stål

Stål, C., 1862, Berl. Ent. Z. 6: 307.

Myndus apicemaculatus Synave

Synave, H., 1959, Rev. Zool. Bot. Africaine 59(1-2): 13, figs. 36-38.

Congo: Lubumbashi, December 1951, C. Seydel. 5 specimens.

Myndus liberianus, n. sp.

(Figs. 1-5)

Front ochraceous, borders and median carinae yellow; longer than the greatest width (36:31); narrow at base, strongly widening to clypeus (apical width twice as great as basal width). Front-clypeal suture straight. Apical ocellus distinct, yellow. Clypeus ochraceous, lateral and median carinae yellow. Labium slightly surpassing middle coxae. Vertex ochraceous, lateral and median carinae yellow, the anterior half with two longitudinal black stripes limited by a transverse carina; median length slightly longer than width across posterior angles (28:25); breadth, at the level of the apex of the basal emargination, about two times greater than the apical width (20:11); lateral borders slightly concave, strongly diverging to the base; transverse carina situated near midlength, longitudinal carinae distinct to the base of the posterior compartment. Pronotum yellow. Scutellum ochraceous brown, darker medially; lateral carinae concolorous, emphasized by a brown color; median carina yellow. Elytra (fig. 1) hyaline; nervures, except for the brown crossveins and apical part of some of the longitudinal veins, yellow, punctate with brown; with a brown blotch opposite the anterior border of stigma, several others on the posterior margin of the apical cells, and especially a large and darker one on apex of third apical branch of vein M; branching of Sc+R generally in front of cell Cu; vein M leaving the common trunk of Sc+R near base; clavus long, reaching posterior third of elytron, bifurcation of claval nerves near middle of

clavus. Legs yellow, posterior tibiae unarmed. Genitalia of male as in figs. 2 to 5. Total length, about 6 mm.

Holotype, male: Liberia, Suakoko, March 1-9, 1952, C. C. Blickenstaff (USNM type No. 69927). Paratypes: Locality, year and collector same as for holotype, taken January 25, February 24, March 1-9, 21 (34, in United States National Museum and Institut Royal de Sciences Naturelle de Belgique).

Genus **Volcanalia** Distant

Distant, W. L., 1917, Trans. Linn. Soc. London 17: 279.

Volcanalia fumosa Distant

Distant, W. L., 1917, Trans. Linn. Soc. London 17: 282.

Seychelles: Silhouette, 1908. 1 specimen.

Genus **Adolendana** Distant

Distant, W. L., 1917, Trans. Linn. Soc. London 17: 278.

Adelendana typica Distant

Distant, W. L., 1917, Trans. Linn. Soc. London 17: 278.

Seychelles: Silhouette, 1908. 1 specimen.

Family FLATIDAE

Genus **Phromnia** Stål

Stål, C., 1862, Bidragtill Rio Janeiro-traktens Hemipterfauna 2: 68.

Phromnia angoleusis Distant

Distant, W. L., 1910, Ann. Mag. Nat. Hist. 5: 300.

Sierra Leone, Mitford, 1896. 1 specimen.

Phromnia superba Melichar

Melichar, L., 1901, Ann. Naturh. Mus. Wien 16: 206.

Liberia: Suakoko, January 15, 1952; Nigeria: Olokemji, Ibadan. 2 specimens.

Genus **Flatina** Melichar

Melichar, L., 1901, Ann. Naturh. Mus. Wien 16: 214.

Flatina chloris Melichar

Melichar, L., 1901, Ann. Naturh. Mus. Wien 16: 215.

Sierra Leone: Mitford, 1896. 1 specimen.

Flatina circellaris Melichar

Melichar, L., 1901, Ann. Naturh. Mus. Wien 16: 217.

Ghana: Gold Coast, Axim, 1896. 1 specimen.

Genus **Scarpanta** Stål

Stål, C., 1862, Bidragtill Rio Janeiro-traktens Hemipterfauna 2: 69.

Scarpanta mortuifolia (Stål)

Stål, C., 1861, Stettin Ent. Zeit. 22: 150. *Poeciloptera*.

Liberia: Lenguatowa near Kakate, M. M. Manns. 1 specimen.

Genus **Lawana** Distant

Distant, W. L., 1906, Fauna British India, Rhynch. 3: 420.

Lawana exsoleta (Melichar)

Melichar, L., 1902, Ann. Naturh. Mus. Wien 17: 45. *Phyma*.
"West Africa: I-IX-32," F. H. Hope. 1 specimen.

Genus **Phlebopterum** Stål

Stål, C., 1854, Öfv. Svenska Vet. Akad. Förh. 1854, p. 248.

Phlebopterum praemorsum Stål

Stål, C., 1854, Öfv. Svenska Vet. Akad. Förh. 1854, p. 248.
Congo: Lubumbashi. 1 specimen.

Genus **Calauria** Stål

Stål, C., 1866, Hemiptera Africana. 4: 245.

Calauria sulciceps Stål

Stål, C., 1866, Hemiptera Africana 4: 245.
South Africa: Cape Town, January–April, 1915, J. C. Bridwell. 11 specimens.

Genus **Aulophorina** Strand

Karsch, F. A. A., 1890, Berl. Ent. Z. 35: 69. *Aulophorus*.
Strand, E., 1926, Arch. f. Naturg., 93 (A8): 46. *Aulophorina*.

Aulophorina canaliculata (Karsch)

Karsch, F. A. F., 1890, Berl. Ent. Z. 35: 69. *Aulophorus*.
South Africa: Transvaal, February, 1957; Nelspruit, November, 1957, N. L. H. Krauss. 2 specimens.

Genus **Paranotus** Karsch

Karsch, F. A. F., 1890, Berl. Ent. Z. 35: 66.

Paranotus rufilinea (Walker)

Walker, F., 1858, List of the Homopterous Insects in the Collection of the British Museum, Suppl., p. 116.
Liberia: Lenguatowa, near Kakata. Mozambique: Lourenco Marquez, C. W. Howard, 1910. 4 specimens.

Genus **Juba** Jacobi

Jacobi, A., 1910, Schwedischen Zool. Exped. Kilimandjaro 12: 103.

Juba plagosa (Distant)

Distant, W. L., 1907, Insecta Transvaaliensia 8: 204, pl. 19, figs. 10, 10a. *Seliza*.
Mozambique: Lourenco Marquez, 1910, C. W. Howard. 1 specimen.

Genus **Cryptoflata** Melichar

Melichar, L., 1902, Ann. Naturh. Mus. Wien 17: 19.

Cryptoflata unipunctata (Olivier)

Olivier, G. A., 1791, Encyclopedie Methodique Histoire Naturelle Insectes 6: 576.
Fulgora.
Tanzania: Dar es Salaam. 1 specimen.

Cryptoflata zielensis Synave

Synave, H., 1963, Mem. Inst. Franc. Afrique Noire 66: 460, figs. 5-7.

Nigeria: Warri, 1897, Dr. Roth; Oloke Meji, Ibadan. Liberia: Lenguatowa, near Kakata, M. M. Manns. 8 specimens.

Cryptoflata nimaensis Synave

Synave, H., 1963, Mem. Inst. Franc. Afrique Noire 66: 463, figs. 11-13.

Liberia: Lenguatowa, near Kakata, M. M. Manns; Suakoko, December 28, 1951. Nigeria: Warri, July 1897, Dr. Roth. 11 specimens.

Cryptoflata viridis (Synave)

Synave, H., 1953, Expl. Parc Nat. Upemba 32(2): 38. *Lawana*.

South Africa: Transvaal, November, 1951, N. L. H. Krauss. 2 specimens.

Family LOPHOPIDAE

Genus **Elasmoscelis** Spinola

Spinola, M., 1839, Ann. Soc. Ent. France 8: 388.

Elasmoscelis cimicoides Spinola

Spinola, M., 1839, Ann. Soc. Ent. France 8: 391, pl. 16, fig. 4.

Angola: Cundenuria, May 11, 1956. Congo: Luebo, D. W. Snyder. Mozambique: Lourenco Marquez, 1910, C. W. Howard; Umbelusi, March 5, 1909. South Africa: Durban, May 13, 1915. Zambia: Kafne R., Dec. 1919, H. O. Raven. 16 specimens.

Elasmoscelis guineensis Synave

Synave, H., 1963, Mem. Inst. Franc. Afrique Noire 66: 468, fig. 14.

Nigeria: Oloke Meji, Ibadan. 3 specimens.

Family RICANIIDAE

Genus **Ricanopsis** Melichar

Melichar, L., 1898, Ann. Naturh. Mus. Wien 13: 251.

Ricanopsis nebulosa (Fabricius)

Fabricius, J. C., 1794, Entomologia Systematica Emendata et Aucta 4: 40. *Cicada*.

Liberia: Suakoko, January 26, 1952, C. C. Blickenstaff. 1 specimen.

Family ACHILIDAE

Genus **Achilla** Haglund

Haglund, C. J. E., 1899, Öfv. Svenska Vet. Akad. Förh. 1899, p. 62.

Achilla marginatifrons Haglund

Haglund, C. J. E., 1899, Öfv. Svenska Vet. Akad. Förh. 1899, p. 63.

Cameroons, West Africa: Yaounde, van Zwaluwenburg and Mc Gough. Nigeria: Oloke Meji, Ibadan, 1914, J. C. Bridwell; Warri, Dr. Roth. 13 specimens.

Genus **Lanuvia** Stål

Stål, C., 1866, Hemiptera Africana 4: 182.

Lanuvia luteovittata Fennah

Fennah, R. G., 1950, Bull. Brit. Mus. (Nat. Hist.), Entom. 1: 75.

Cameroons, West Africa: Yaounde, 1930, van Zwaluwenburg and Mc Gough. 1 specimen.

Ballomarius Jacobi

Jacobi, A., 1941, Zool. Jahrb. 74(4): 294.

Ballomarius kawandanus Fennah

Fennah, R. G., 1950, Bull. Brit. Mus. (Nat. Hist.), Entom. 1(1): 130, figs. 87a-b.

Liberia: Lenguatowa, near Kakata, M. M. Manns; Mount Coffee, R. P. Currie; Suakoko, December 1-10, 1951, C. C. Blickenstaff. 5 specimens.

Ballomarius wittei Synave

Synave, H., 1959, Expl. Parc Nat. Albert 96: 78, figs. 221 and 225.

Liberia: Suakoko, May 3-4, 1952, C. C. Blickenstaff. 1 specimen.

Genus Cnidus Stål

Stål, C., 1866, Hemiptera Africana 4: 185.

Cnidus naevius (Jacobi)

Jacobi, A., 1910, Schwedischen Zool. Exped. Kilimandjaro 12: 105, pl. 1, figs. 14a-b. *Necho*.

Liberia: Mount Coffee; Suakoko, May 3-4, 1952, C. C. Blickenstaff. 4 specimens.

Genus Epiusanella Synave

Synave, H., 1959, Expl. Parc Nat. Albert 96: 91.

Epiusanella bimaculata Synave

Synave, H., 1959, Expl. Parc Nat. Albert 96: 93, figs. 263-268.

Liberia: Lenguatowa, near Kakata, M. M. Manns; Suakoko, May 3-4, 1952, C. C. Blickenstaff. 2 specimens.

Genus Sabecoides Fennah

Fennah, R. G., 1958, Bull. Inst. Franc. Afrique Noire (ser. A) 20: 507.

Sabecoides ornatus, n. sp.

(Figs. 6-12)

Front about 1.5 times as long as maximum width (40:27); lateral borders strongly divergent to the apex (basal width : apical width :: 12 : 27), at first slightly concave, then convex to the clypeus; median carina distinct and prominent for the full length; ochraceous brown, with two transverse, white bands, one at the level of the ocelli, the other at the clypeo-frontal suture. Clypeus with a prolongation of the frontal carina; ochraceous brown, with a whitish spot along the lateral borders. Lateral surface of head, except for black area above ocelli, ochraceous. Vertex longer than broad (length to apex of basal emargination : width at that level :: 19 : 14); transverse carina acutely angled and with carina separating front from vertex, delimiting two triangular fossae; median carina distinct for full length, very sharp on posterior part, broadening anteriorly; brownish black except for anterior fossae, transverse carina, and anterior part of median carina which are yellow. Pronotum orange, except for anterior brown part of median lobe; tricar-

nate, lateral carinae concave, reaching to posterior margin. Scutellum brown, with three subparallel carinae, the lateral ones slightly convex. Elytra about three times as long as broad (fig. 6), clavus attaining its midlength; claval nervures uniting far from claval apex; forking of Sc+R and Cu at same level, cell M at the level of the stigma; slightly browned, with orange marks distributed at follows: a large spot along the clavus followed by a spot at the transverse vein uniting Cl₁ to the suture; limited interiorly by Cl₂, bordered exteriorly by Cu; a second elongate spot between R and M, limited posteriorly by crossvein uniting R and M shortly after branching of M; finally, a mark on the stigma which is more or less prolonged along the costal border. Feet yellowish white; posterior tibiae unarmed. Genitalia of male as in figures 7a and 12.

Total length, about 4.5 mm.

Holotype male: Liberia, Lenguatowa, near Kakata, M. M. Manns (USNM type number 69928).

One female specimen similar to and from the same locality as the type, and with the further information "copulating, 12-8-35," is assigned to the species. I do not consider this the allotype female because it is mutilated and lacks the abdomen. This specimen is brownish and without the orange spots on the type.

It is a remarkable coincident that the type of *Sabecoides cacus* Fennah is a female that is strongly marked with red. The lack of color markings, therefore, does not seem to be a characteristic peculiar to the females.

Family TROPIDUCHIDAE

Genus *Catulliaria* Muir

Muir, F., 1931, Ann. Mag. Nat. Hist. (ser. 10) 7: 300.

Catulliaria njalae Muir

Muir, F., 1931, Ann. Mag. Nat. Hist. (ser. 10) 7: 300, fig. 3.

Liberia: Suakoko, March 1-9 and 21, 1952, C. C. Blickenstaff. 3 specimens.

Genus *Tropiduchodes* Schmidt

Schmidt, E., 1910, Stettin Ent. Zeit. 71: 188.

Tropiduchodes coleopratus Schmidt

Schmidt, E., 1910, Stettin Ent. Zeit. 71: 189.

Nigeria: Oloke Meji, Ibadan. 2 specimens.

Tropiduchus Stål

Stål, C., 1854, Öfv. Svenska Vet. Akad. Förh. 1854, p. 248.

Tropiduchus anceps Fennah

Fennah, R. G., 1957, Ann. Mus. Roy. Congo Belge 59: 125, figs. 74a-b.

Cameroon, West Africa: Douala, van Zwaluwenburg and Mc Cough. 1 specimen.

Tropiduchus asturco Fennah

Fennah, R. G., 1957, Ann. Mus. Roy. Congo Belge 59: 126, figs. 75a-e.

Liberia: Suakoko, March 21, 1952, C. C. Blickenstaff. 1 specimen.

Family ISSIDAE

Genus **Trienopa** Signoret

Signoret, V., 1860, Ann. Soc. Ent. France (ser. 3) 8: 188.

Trienopa paradoxa (Gerstaecker)

Gerstaecker, C. E. A., 1892, Jahrb. Wiss. Aust. 9(2): 58. *Eriphyle*.

Nigeria: Oloke Meji, Ibadan. 1 specimen.

Genus **Mithymna** Stål

Stål, C., 1861, Öfv. Svenska Vet. Akad. Förh. 18: 207.

Mithymna pergamena Stål

Stål, C., 1861, Stettin Ent. Zeit. 22: 150.

South Africa: Cape Town, January to April, 1915, J. C. Bridwell. 5 specimens.

Family MEENOPLIDAE

Genus **Nisia** Melichar

Melichar, L., 1903, Homoptera—Fauna von Ceylon, p. 53.

Nisia atrovenosa (Lethierry)

Lethierry, L. F., 1888, Ann. Mus. Genova (ser. 2) 6: 466.

Liberia: Cape Mount, M. M. Manns; Roberts Airfield, Sept., N. L. H. Krauss;

Suakoko, January 25, 1952, C. C. Blickenstaff. 7 specimens.

Nisia albinotata Muir

Muir, F., 1927, Ann. Mag. Nat. Hist. (ser. 9) 19: 199, figs. 3–5.

Congo: Gangala-na-Bodio, April 29, 1955, Baker and Schmidt. 3 specimens.

Genus **Kermesia** Melichar

Melichar, L., 1905, Homopteren—Fauna von Ceylon, p. 52.

Kermesia albinorvosa Muir

Muir, F., 1927, Ann. Mag. Nat. Hist. (ser. 9) 19: 203, figs. 11 and 12.

Liberia: Suakoko, February 20 and May 6, 1952, C. C. Blickenstaff. 2 specimens.

Genus **Meenoplus** Fieber

Fieber, F. X., 1866, Verh. Zool. Bot. Ges. Wien 16: 498.

Meenoplus stramineus Muir

Muir, F., 1927, Ann. Mag. Nat. Hist. (ser. 9) 19: 206, fig. 19.

Liberia: Lenguatowa near Kakata, 1935–36, H. Mann; Suakoko, February 24 and March 21, 1952, C. C. Blickenstaff. 6 specimens.

Meenoplus albinervosus Muir

Muir, F., 1927, Ann. Mag. Nat. Hist. (ser. 9) 19: 208, fig. 20. *Anigrus*.

Liberia: Suakoko, February 29, 1952, C. C. Blickenstaff. 1 specimen.

Meenoplus rotula Fennah

Fennah, R. G., 1957, Bull. Inst. Franc. Afrique Noire 19: 1279.

Liberia: Suakoko, March 21, 1952, C. C. Blickenstaff. 1 specimen.

Meenoplus actor Fennah

Fennah, R. G., 1957, Bull. Inst. Franc. Afrique Noire 4: 1280, figs. 3f-i.
Cameroons, West Africa: Douala, November 10, 1936, van Zwaluwenburg and
Mc Gough. Nigeria: Oloke Meji, Ibadan, 2 specimens.

Genus **Anigrus** Stål

Stål, C., 1866, Hemiptera Africana 4: 172.

Anigrus lugens (Stål)

Stål, C., 1855, Öfv. Svenska Vet. Akad. Förh. 12: 93. *Delphax*.
Liberia: Suakoko, March 21, 1952, C. C. Blickenstaff. Sierra Leone: Njala,
November 17-20, 1935, van Zwaluwenburg and Mc Gough. 8 specimens.

Family DERBIDAE

Genus **Diostrombus** Uhler

Uhler, P. R., 1896, Proc. U. S. Nat. Mus. 19: 283.

Diostrombus dilatatus (Westwood)

Westwood, J. O., 1851, Ann. Mag. Nat. Hist. (ser. 2) 7: 209. *Derbe*.
Sierra Leone: Njala, November 16, 1935, van Zwaluwenburg and Mc Gough. 4
specimens.

Genus **Proutista** Kirkaldy

Kirkaldy, C. W., 1904, Entomologist 37: 279.

Proutista fritillaris (Boheman)

Boheman, C. H., 1838, Handl. Svenska Vet. Akad. 58: 227, pl. 7, figs. 8-9. *Derbe*.
Nigeria: Ibadan, van Zwaluwenburg and Mc Gough. 3 specimens.

Genus **Zoraida** Kirkaldy

Kirkaldy, C. W., 1900, Entomologist 33: 242.

Zoraida sinuosa (Boheman)

Boheman, C. H., 1837, Handl. Svenska Vet. Akad. 58: 225, pl. vii, fig. 1-2. *Derbe*.
Sierra Leone: Njala, van Zwaluwenburg and Mc Gough. 1 specimen.

Genus **Kamendaka** Distant

Distant, W. L., 1906, Fauna British India, Rhynchota 3: 310.

Kamendaka albomaculata Muir

Muir, F., 1926, Ann. Mag. Nat. Hist. (ser. 9) 18: 230, figs. 4-6.
Liberia: Cape Mount, W. M. Mann; Lenguatowa near Kakata, W. M. Mann,
1935-1936. 6 specimens.

Kamendaka hargreavesi Muir

Muir, F., 1928, Ann. Mag. Nat. Hist. (ser. 10) 1: 507, figs. 12-13.
Liberia: Lenguatowa near Kakata, W. M. Mann, 1935-1936. 2 specimens.

Genus **Patara** Westwood

Westwood, J. O., 1840, Proc. Linn. Soc. London 1: 85.

Patara hargreavesi Muir

Muir, F., 1930, Ann. Mag. Nat. Hist. (ser. 10) 5: 82, figs 4-5.
Liberia: Lenguatowa near Kakata, W. M. Mann, 1935-1936. 1 specimen.